

1   Claims:

2   (1) A method comprising:

3   communicating with a network from a communication terminal  
4   provided with a nonvolatile memory that stores  
5   identification information and a password and enabled to  
6   communicate with said network after said identification  
7   information and said password are identified, including the  
8   steps of:

9   (a) sending said identification information and said  
10   password stored in said nonvolatile memory to said network  
11   at a start of a communication;

12   (b) generating another password that is different from said  
13   password sent in said step (a) after said communication is  
14   started;

15   (c) storing said generated password in said nonvolatile  
16   memory; and

17   (d) sending said generated password to said network before  
18   said communication started in said step (a) is ended.

19   (2) The method according to Claim 1,

20   wherein sending of said generated password in said step (d)  
21   is done at the end of the communication started in said step  
22   (a).

23   (3) A method comprising:

1 communicating with a network from a communication terminal  
2 provided with a nonvolatile memory that stores  
3 identification information and a password and enabled to  
4 communicate with said network after said identification  
5 information and said password are identified, said network  
6 being provided with a storage that stores said  
7 identification information and said password, including the  
8 steps of:

9 (a) receiving said identification information and said  
10 password stored in said nonvolatile memory at a start of a  
11 communication;

12 (b) comparing said identification information and said  
13 password received in said step (a) with said identification  
14 information and said password stored in said storage  
15 respectively;

16 (c) enabling said communication terminal to communicate with  
17 said network in response to the result of said comparison in  
18 said step (b);

19 (d) receiving another password that is different from said  
20 password received in said step (a) before said communication  
21 enabled in said step (c) is ended; and

22 (e) storing said password received in said step (d) in said  
23 storage.

24 (4) A method according to Claim 3,

1 wherein said method further includes a step of:

2 stopping communication of said communication terminal in  
3 case said password received in said step (d) corresponds to  
4 said password received at the start of said communication in  
5 said step (a).

6 (5) The method according to Claim 3,

7 wherein said password is received in said step (d) when said  
8 communication enabled in said step (c) is ended.

9 (6) A method comprising:

10 communicating with a network from a communication terminal  
11 provided with a nonvolatile memory that stores  
12 identification information and a password and enabled to  
13 communicate with said network after said identification  
14 information and said password are identified, said network  
15 being provided with a storage that stores said  
16 identification information and said password, including the  
17 steps of:

18 (a) sending said identification information and said  
19 password stored in said nonvolatile memory to said network  
20 at a start of a communication;

21 (b) comparing said identification information and said  
22 password sent in said step (a) with said identification  
23 information and said password stored in said storage  
24 respectively;

1 (c) enabling said communication terminal to communicate with  
2 said network in response to the result of said comparison in  
3 said step (b);

4 (d) generating another password that is different from said  
5 password sent in said step (a) after said communication is  
6 started; and

7 (e) storing said generated password in said nonvolatile  
8 memory;

9 (f) sending said generated password to said network before  
10 said communication enabled in said step (c) is ended; and

11 (g) storing said password sent in said step (f) in said  
12 storage.

13 (7) A method comprising:

14 communicating with a network from a first communication  
15 terminal provided with a first nonvolatile memory that  
16 stores identification information and a password and enabled  
17 to communicate with said network after said identification  
18 information and said password are identified and from a  
19 second communication terminal provided with a second  
20 nonvolatile memory and enabled to communicate with said  
21 network after said identification information and said  
22 password are identified, including the steps of:

23 (a) storing said identification information and said  
24 password stored in said first nonvolatile memory in said  
25 second nonvolatile memory;

1 (b) inhibiting the use of said first communication terminal;

2 (c) sending said identification information and said  
3 password stored in said second nonvolatile memory to said  
4 network at a start of said communication;

5 (d) generating another password that is different from said  
6 password sent in said step (c) after said communication is  
7 started;

8 (e) storing said generated password in said second  
9 nonvolatile memory; and

10 (f) sending said generated password to said network before  
11 said communication started in said step (c) is ended.

12 (8) A method comprising:

13 communicating with a network from a first communication  
14 terminal provided with a first nonvolatile memory that  
15 stores identification information and a password and enabled  
16 to communicate with said network after said identification  
17 information and said password are identified and from a  
18 second communication terminal provided with a second  
19 nonvolatile memory and enabled to communicate with said  
20 network after said identification information and said  
21 password are identified, said network being provided with a  
22 storage that stores said identification information and said  
23 password, including the steps of:

24 (a) storing said identification information and said

1 password stored in said first nonvolatile memory in said  
2 second nonvolatile memory;

3 (b) inhibiting the use of said first communication terminal;

4 (c) sending said identification information and said  
5 password stored in said second nonvolatile memory to said  
6 network at a start of said communication;

7 (d) comparing said identification information and said  
8 password sent in said step (c) with said identification  
9 information and said password stored in said storage  
10 respectively;

11 (e) enabling said communication terminal to start said  
12 communication in response to the result of said comparison  
13 in said step (d);

14 (f) generating another password that is different from said  
15 password sent in said step (c) after said communication is  
16 started;

17 (g) storing said generated password in said second  
18 nonvolatile memory; and

19 (h) sending said generated password to said network before  
20 said communication enabled in said step (e) is ended; and

21 (i) storing said password sent in said step (h) in said  
22 storage.

23 (9) The method according to Claim 1,

1 wherein said another password is generated at random.

2 (10) A communication terminal enabled to communicate with a  
3 network after identification information and password are  
4 identified, said terminal including:

5 a nonvolatile memory enabled to store said identification  
6 information and said password;

7 a unit for generating another password that is different  
8 from said password sent at a start of said communication;  
9 and

10 a unit for sending said identification information and said  
11 password stored in said nonvolatile memory to said network  
12 at a start of said communication, sending said generated  
13 password to said network before said started communication  
14 is ended, and storing said generated password in said  
15 nonvolatile memory.

16 (11) The communication terminal according to Claim 10,

17 wherein said unit for generating said another password at  
18 random generates the password at random.

19 (12) The communication terminal according to Claim 10,

20 wherein said terminal further includes:

21 a port for sending said identification information and said  
22 password stored in said nonvolatile memory to external or

1 receiving them from external.

2 (13) The communication terminal according to Claim 10,  
3 wherein said terminal can also include a removable storage  
4 medium that can store said identification information and  
5 said password stored in said nonvolatile memory.

6 (14) A network apparatus for enabling the communication  
7 terminal according to claim 10, to start a communication by  
8 identifying identification information and a password of  
9 said terminal, said apparatus including:

10 a storage that stores said identification information of  
11 said communication terminal and a password corresponding to  
12 said identification information; and

13 a controller for receiving said identification information  
14 and said password from said communication terminal at a  
15 start of said communication, then comparing said  
16 identification information and said password with those  
17 stored in said storage, thereby enabling said communication  
18 terminal to start said communication according to the result  
19 of said comparison, and receiving another password that is  
20 different from said password from said communication  
21 terminal before said started communication is ended so as to  
22 store said received password in said storage.

23 (15) An article of manufacture comprising a computer usable  
24 medium having computer readable program code means embodied  
25 therein for causing communication, the computer readable  
26 program code means in said article of manufacture comprising



1 computer readable program code means for causing a computer  
2 to effect the steps of claim 1.

3 (16) An article of manufacture comprising a computer usable  
4 medium having computer readable program code means embodied  
5 therein for causing communication, the computer readable  
6 program code means in said article of manufacture comprising  
7 computer readable program code means for causing a computer  
8 to effect the steps of claim 3.

9 (17) An article of manufacture comprising a computer usable  
10 medium having computer readable program code means embodied  
11 therein for causing communication, the computer readable  
12 program code means in said article of manufacture comprising  
13 computer readable program code means for causing a computer  
14 to effect the steps of claim 6.

15 (18) An article of manufacture comprising a computer usable  
16 medium having computer readable program code means embodied  
17 therein for causing communication, the computer readable  
18 program code means in said article of manufacture comprising  
19 computer readable program code means for causing a computer  
20 to effect the steps of claim 7.

21 (19) An article of manufacture comprising a computer usable  
22 medium having computer readable program code means embodied  
23 therein for causing communication, the computer readable  
24 program code means in said article of manufacture comprising  
25 computer readable program code means for causing a computer  
26 to effect the steps of claim 8.

27 (20) A computer program product as recited in claim B1, the

1 computer readable program code means in said computer  
2 program product further comprising computer readable program  
3 code means for causing a computer to effect terminal of  
4 claim 10.

5 (21) A computer program product as recited in claim B1, the  
6 computer readable program code means in said computer  
7 program product further comprising computer readable program  
8 code means for causing a computer to effect the apparatus of  
9 claim 14.